IN THE CLAIMS

The following is a complete listing of the claims. This listing replaces all earlier versions and listings of the claims.

Claim 1. (currently amended): A recording control apparatus which performs recording on a recording medium by using a recording head, said apparatus comprising:

said recording head, which includes at least one recording element array in which plural recording elements are aligned along a predetermined direction;

a driving correction table which includes pixel correction data for correcting a recording driving characteristic of each recording element constituting said recording element array by the pixel unit of image data, and in which the pixel correction data is provided corresponding to plural lines of the image data in a sub-scan direction; and

driving control means for correcting light emission characteristic dispersion of each recording element by means of an average value of a recording driving time of [[each]] corresponding recording [[element]] elements in plural lines of said recording element array, by modifying the recording driving time by the pixel unit, according to switching of the correction data for each line based on said driving correction table including the pixel correction data of the plural lines,

wherein said driving control means comprises:

a correction memory for storing said driving correction table including the pixel correction data of the plural lines;

correction pixel designation means for designating a correction pixel number of the pixel correction data stored in said correction memory;

correction queue designation means for designating a correction queue of the pixel correction data stored in said correction memory; and

driving time calculation means for calculating the recording driving time of each recording element of said recording element array by the pixel unit, by using the pixel correction data of each line to which the correction pixel number and the correction queue have been designated.

Claim 2. (canceled)

Claim 3. (currently amended): A recording control apparatus which performs electrophotographic recording by using a recording head arranged in a main scan direction perpendicular to a movement direction of a recording medium, said recording control apparatus comprising:

said recording head, which includes at least one recording element array in which plural recording elements are aligned along said main scan direction;

a light quantity correction table which includes pixel correction data for correcting a light emission characteristic of each recording element constituting said recording element array by the pixel unit of image data, and in which the pixel correction data is provided corresponding to plural lines of the image data in a sub-scan direction; and

driving control means for correcting light emission characteristic dispersion of each recording element by means of an average value of a light emission driving time of [[each]] corresponding recording [[element]] elements in plural lines of said recording element array, by modifying the light emission driving time by the pixel unit, according to switching of the correction data for each line based on said light quantity correction table including the pixel correction data of the plural lines,.

wherein said driving control means comprises:

a correction memory for storing said light quantity correction table including the pixel correction data of the plural lines;

correction pixel designation means for designating a correction pixel number of the pixel correction data stored in said correction memory;

correction queue designation means for designating a correction queue of the pixel correction data stored in said correction memory; and

driving time calculation means for calculating the light emission driving time of each recording element of said recording element array by the pixel unit, by using the pixel correction data of each line to which the correction pixel number and the correction queue have been designated.

Claim 4. (canceled)

Claim 5. (currently amended): An apparatus according to Claim [[3]] 1, wherein said recording element array includes at least one LED array in which plural LED elements are aligned along said main scan direction.

Claim 6. (currently amended): A recording control method which performs recording on a recording medium by using a recording head, the recording head including at least one recording element array in which plural recording elements are aligned along a predetermined direction, said method comprising:

a step of generating a driving correction table which includes pixel correction data for correcting a recording driving characteristic of each recording element constituting the recording element array by the pixel unit of image data, and in which the pixel correction data is provided corresponding to plural lines of the image data in a sub-scan direction; and

a driving control step for correcting light emission characteristic dispersion of each recording element by means of an average value of a recording driving time of [[each]] corresponding recording [[element]] elements in plural lines of the recording element array, by modifying the recording driving time by the pixel unit, according to switching of the correction data for each line based on the driving correction table including the pixel correction data of the plural lines,

wherein said driving control step comprises:

a storage step, of storing the driving correction table including the pixel correction data of the plural lines in a correction memory;

a correction pixel designation step, of designating a correction pixel number of the pixel correction data stored in the correction memory;

a correction queue designation step, of designating a correction queue of the pixel correction data stored in the correction memory; and

a driving time calculation step, of calculating the recording driving time of each recording element of the recording element array by the pixel unit, on the basis of the pixel correction data of each line to which the correction pixel number and the correction queue have been designated.

Claim 7. (canceled)

Claim 8. (currently amended): A recording control method which performs electrophotographic recording on a recording medium moving in a direction perpendicular to a main scan direction, by using a recording head which includes at least one recording element array in which plural recording elements are aligned along the main scan direction, said recording control method comprising:

a step of generating a light quantity correction table which includes pixel correction data for correcting a light emission characteristic of each recording element constituting the recording element array by the pixel unit of image data, and in which the pixel correction data is provided corresponding to plural lines of the image data in a sub-scan direction; and

a driving control step for correcting light emission characteristic dispersion of each recording element by means of an average value of a light emission driving time of [[each]] corresponding recording [[element]] elements in plural lines of said recording element array, by modifying the light emission driving time by the pixel unit, according to switching of the correction data for each line based on the light quantity correction table including the pixel correction data of the plural lines,

wherein said driving control step comprises:

a storage step, of storing the light quantity correction table including the pixel correction data of the plural lines in a correction memory;

a correction pixel designation step, of designating a correction pixel number of the pixel correction data stored in the correction memory;

a correction queue designation step, of designating a correction queue of the pixel correction data stored in the correction memory; and

a driving time calculation step, of calculating the light emission driving time of each recording element of the recording element array by the pixel unit, on the basis of the pixel correction data of each line to which the correction pixel number and the correction queue have been designated.

Claim 9. (canceled)

Claim 10. (original): A method according to Claim 8, wherein the recording element array includes at least one LED array in which plural LED elements are aligned along the main scan direction.

Claims 11-23. (canceled)